



THE GOLD STANDARD IN SWEAT TESTING

MACRODUCT® ADVANCED & CHLOROCHEK® CHLORIDOMETER®

For clinical laboratory use for stimulation and collection of sweat from humans for the analysis and diagnosis of cystic fibrosis.

Innovation with Integrity

MACRODUCT® ADVANCED IS SWEAT TESTING AT ITS BEST

More than 5 million sweat tests have been performed using the Macroduct Advanced Sweat Collection System, helping to improve lives around the world through early diagnosis. Macroduct Advanced is the result of over 40 years of ongoing innovation to further standardize pilocarpine iontophoresis and sweat collection for quick and accurate diagnosis of cystic fibrosis.

Device

- Easy to use touch screen interface with built-in step-by-step graphical instructions for consistent sweat collection
- Flexible data management options
- Meets protocols and traceability requirements



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Sweat Collector

- Elliptical-shaped collector is a better fit for small arms
- 15 microliters of sweat collected over a 30 minute period
- Measurement marks on each collector provide a visual check to ensure proper volume of sweat is collected and assist with determining the sweat rate

Electrodes

- Iontophoresis will not start if pilogel discs are not detected, enhancing safety



Sweat Transfer

- Easyduct® Needle has a tapered blunt end for easy insertion into the tubing to transfer sweat

Adjustable and Disposable Straps

- Easy to fit and disinfect for reuse



ELECTRODES, COLLECTOR, AND STRAPS DESIGNED FOR
GREATER CONVENIENCE WHEN WORKING WITH SMALL LIMBS

CHLOROCHEK® CHLORIDOMETER® IS THE ONLY FDA APPROVED CHLORIDOMETER FOR DIAGNOSING CF

The ChloroChek Chloridometer is a coulometric titrator designed to determine chloride ion concentrations in sweat samples with just 10 microliters of sweat. It displays the concentration directly in mmol/L Cl- once the sweat sample is added to a buffer/stabilizer working solution.

Key Advantages

- Easy to operate with consistent results in less than 20 seconds
- Intuitive touchscreen interface with step-by-step prompts
- Maintenance for electrodes is simple – rinse daily with deionized water and clean weekly
- Electrodes are easy to install by simply pushing into place
- Results can be exported for complete traceability



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THREE LEVELS OF SWEAT CONTROLS ARE AVAILABLE TO ENSURE THE HIGHEST QUALITY CONTROL FOR MEETING REGULATORY REQUIREMENTS

VQC PROGRAM

- Online, real-time quality control evaluation and comparison program
- Assists with evaluating the performance of your instrument by comparing your QC results to those of other laboratories worldwide using the same instrument and lot of controls
- Monthly reports assist with routine record-keeping
- Participation in a peer group comparison program fulfills good lab practice guidelines
- Provided at no additional charge



Macroduct® Advanced Sweat Collection System Model 3710

*Includes all needed accessories and one supply kit. Each kit contains 12 Macroduct Advanced Pilogel discs, 6 Macroduct Advanced collectors, and 6 small sealable containers.

Iontophoresis Current (nominal control)	(a) Current profile-controlled ramp-up and ramp-down (b) 1.5 mA (c) Fail-safe current limited by circuit design
Electrode Cable Assembly	Color-coded elliptically-shaped electrodes to fit elliptical Pilogel discs
USB Connection	Micro USB connector for exporting test data
Power	Rechargeable lithium ion battery
Device & Carrying Case Weight	5 lbs (2.3 kg)

ChloroChek® Chloridometer® Model 3400

Sample Volume	10 μ L
Duration of Measurement	Approximately 20 seconds
Reproducibility (*Generally limited by the sample dispensing system/ pipette accuracy)	CV of 1.02% at 100 mmol/L
Measurement Display	0 - 999 mmol/L
Clinical Measuring Range	10 - 160 mmol/L
Resolution	1 mmol/L over the entire measurement range
Integrated Stir Bar	PTFE coated magnetic cylindrical stir bar
Environmental Operating Conditions	Indoor use; no direct sunlight
Operating Temperature (ambient)	10 °C to 35 °C / 50 °F to 95 °F
Storage Temperature	-40 °C to 70 °C / -40 °F to 158 °F
Room Humidity	5 - 80% (non-condensing)
Altitude	Up to 2000 m
Electrical Voltage	100 -120 VAC / 200 - 240 VAC
Frequency	50 - 60 Hz
Power	20 VA
Electrical Connection	Detachable power supply cord
Fuses (2): HBC breaking capacity 1500 A	1.0 A for 100-120 VAC, 0.5 A for 200-240 VAC
Memory Backup	Integral lithium cell (10 years typical)
Dimensions: (W x D x H)	20.5 x 22.0 x 36.0 cm (8.0 x 8.1 x 14.2 inches)
Weight	~ 5.7 kg (12.54 lbs.)
Data Output	Serial RS-232 / USB

Catalog Number	Description	Catalog Number	Description
MODEL 3710-SYS	Macroduct Advanced 3710 Sweat Collection System	ChloroChek	MODEL 3400 ChloroChek Chloridometer Sweat Chloride Analyzer
SS-268	Macroduct Advanced Supply Kit		AC-071 Ampule Organizer for Sweat Controls
AC-193	EasyDuct Needle/1cc Syringe, Pack of 3		SS-150 Sweat Controls, L1, L2, L3 12 ea., 36x0.75mL
AC-203	Electrode Cable Assembly Macroduct Advanced		SS-248 ChloroChek Reagent Set, 37x10mL BS + 1x30mL GS
SS-269	Strap Set, 18 ea, Macroduct Advanced		SS-251 ChloroChek Standard Solution, 100 mmol/L, 10x1mL
SS-270	Strap Set, 180 ea, Macroduct Advanced		SS-288 ChloroChek Pipette Tips, 0.1-10 μ L, Qty 960
SS-271	Electrode Cleaning Pads, Pack of 10		AC-202 ChloroChek Pipette, 10 μ L Fixed Volume



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Online information
MacroductAdvanced.com

